

DEPARTMENT OF TRANSPORTATION**DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:**Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-001459**Date Inspected:** 23-Apr-2009**Project Name:** SAS Superstructure**OSM Arrival Time:** 1900**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 700**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**Location:** Changxing Dao, Shanghai**Quality Control Contact:** William (Bill) Oak**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coatings Inspection**Bridge No:** 34-0006**Component:** OBG 2BW, OBG 2AE, OBG 2AW, Cross beam**Bid Item:** 77, 78, 79**Lot No:** B265**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. James Lumley arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

OBG 2BW

ZPMC perform removal and repairs to Interzinc 22 coated areas which exhibited mud cracking due to excess film build. Coating was removed via abrasive blasting to base metal and re-application of Interzinc 22 was performed.

OBG 2AE

ZPMC perform removal and repairs to Interzinc 22 coated areas which exhibited mud cracking due to excess film build. Coating was removed via abrasive blasting to base metal and re-application of Interzinc 22 was performed

OBG 2AW

Base metal faying surfaces at the "U" rib stiffeners were abrasive blasted to SSPC SP-10 and Interzinc 22 applied.

CORNER UNITS

Three sets of these units base metal surfaces were abrasive blasted to SSPC SP-10 and faying surfaces coated with Interzinc 22.

CROSS BEAM

Chloride testing was performed prior to abrasive blasting operations and chloride levels were 20us/cm and 10us/cm.

BIKEWAY BRACKETS

MEK testing was performed on exterior Interzinc 22 coated surfaces and all tests were rated 5. Chloride testing

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was also done on these units and levels were 20us/cm, dollies were affixed to exterior surfaces for adhesion testing and “mist” coating of Interfine 979 was applied to the exterior surfaces.

Note:

All inspections were performed jointly with ABF & ZPMC QA? QC representatives as well as International Protective Coatings technical service representative and Caltrans QA Lumley.

Summary of Conversations:

No relevant conversations noted.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang. (858) 699-9549, who represents the Office of Structural Materials for your project.

Inspected By:	Lumley,James	Quality Assurance Inspector
Reviewed By:	Carreon,Albert	QA Reviewer
